

KENWOOD

Ez900HDS Ez700SR

CD-RECEIVER

INSTRUCTION MANUAL

AMPLI-TUNER-LECTEUR DE CD

MODE D'EMPLOI

REPRODUCTOR DE DISCOS COMPACTOS RECEPTOR DE FM/AM

MANUAL DE INSTRUCCIONES

KENWOOD CORPORATION

**Take the time to read through this instruction manual.
Familiarity with installation and operation procedures will help
you obtain the best performance from your new CD-receiver.**

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model Ez900HDS/700SR

Serial number _____



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Warning

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION
2967-3, ISHIKAWA-MACHI,
HACHIOJI-SHI
TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT
CONFORMS TO DHHS REGULATIONS NO.21 CFR
1040.10, CHAPTER 1, SUBCHAPTER J.

Location : Bottom Panel

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Safety precautions

▲WARNING

To prevent injury or fire, take the following precautions:

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.

▲CAUTION

To prevent damage to the machine, take the following precautions:

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not set the removed faceplate or the faceplate case in areas exposed to direct sunlight, excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- Do not apply excessive force to the moving faceplate. Doing so will cause damage or malfunction.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

Attach the panel while you are on the vehicle

The panel lock arm will be appeared when the panel is removed. Therefore, the panel must be attached during the driving.

Do Not Load 3-in. CDs in the CD slot

If you try to load a 3 in. CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

About CD players/disc changers connected to this unit

KENWOOD disc changers/ CD players released in 1999 or later can be connected to this unit.

Refer to the catalog or consult your Kenwood dealer for connectable models of disc changers/ CD players.

Note that any KENWOOD disc changers/ CD players released in 1998 or earlier and disc changers made by other makers cannot be connected to this unit.

Unsupported connection may result in damage. Setting the "O-N" Switch to the "N" position for the applicable KENWOOD disc changers/ CD players.

The functions that can be used and the information that can be displayed will differ depending on the models being connected.



- You can damage both your unit and the CD changer if you connect them incorrectly.

LX-bus connection

The LX AMP and the sensor unit cannot be connected simultaneously.

You must connect any of them at a time.

Lens Fogging

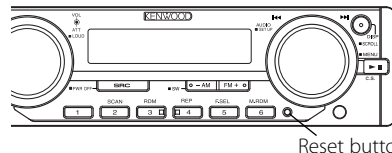
Right after you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, CDs may be impossible to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your Kenwood dealer.

NOTE

This Class B digital apparatus complies with Canadian ICES-003.

Notes

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.
- Press the reset button if the disc auto changer fails to operate correctly. Normal operation should be restored.



- We recommend the use of <Security Code> (page 28) to prevent theft.
- Characters in the LCD may become difficult to read in temperatures below 41 °F (5 °C).
- The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may represent something impossible in actual operation.

Cleaning the Unit

If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth.

If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe neutral detergent off.



- Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erases characters.

Cleaning the Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a dry, soft cloth.

What is HD Radio?

HD Radio is a technology that enables to send digital broadcasting as well as analog one using existing frequencies for FM or AM broadcasting.

Quality of broadcast is improved to the level of music CD in digital FM and that of analog FM in digital AM.

Moreover, if receiving condition is good, you can listen to programs in stereo with the digital AM broadcast.

Digital broadcasting can send other information than audio, so you can display data such as title of music.

Activating your SIRIUS subscription

What is Sirius Satellite Radio?

Sirius is radio the way it was meant to be: up to 100 new channels of digital quality programming delivered to listeners coast to coast via satellite. That means 60 channels of completely commercial-free music. Plus up to 40 more channels of news, sports, and entertainment from names like CNBC, Discovery, SCI-FI Channel, A&E, House of Blues, NPR, Speedvision and Comedy World.

Sirius is live, dynamic entertainment, completely focused on listeners. Every minute of every day of every week will be different.

All 60 commercial-free music channels are created in-house and hosted by DJs who know and love the music. Do you like Reggae?

How about Classic Rock or New Rock? Sirius has an array of choices spanning a vast range of musical tastes including the hits of the 50's, 60's, 70's, & 80's as well as Jazz, Country, Blues, Pop, Rap, R&B, Bluegrass, Alternative, Classical, Heavy Metal, Dance and many others...

From its state-of-the-art, digital broadcasting facility in Rockefeller Center, New York City, Sirius will deliver the broadest, deepest mix of radio entertainment from coast to coast.

Sirius will bring you music and entertainment programming that is simply not available on traditional radio in any market across the country. It's radio like you've never heard before. So Get Sirius and Listen Up! For more information, visit <www.sirius.com>.

Activating your SIRIUS subscription

You can listen to SIRIUS radio program, you must subscribe to SIRIUS receive the service by SIRIUS Satellite Radio.

1 Selecting SIRIUS source

Press the [SRC] button.

Select the "SIRIUS" display.

2 Enter Menu mode

Press the [MENU] button for at least 1 second.

"MENU" is displayed.

3 Select the SIRIUS ID (ESN) display

Press the [AUDIO] knob.

Your unit's unique 12 digit SIRIUS ID Number will be displayed. Write the number down and have your credit card handy.



- This function can be used the [FM] / [AM] button.

4 Exit Menu mode

Press the [MENU] button for at least 1 second.

5 Contact SIRIUS Satellite Radio

Contact SIRIUS on the Internet at: <http://www.sirius.com> and follow the on-screen instructions (GET SIRIUS).

You can also call SIRIUS toll-free at 1-888-539-SIRIUS (7474). The customer support will instruct you.

About CDs

Handling CDs

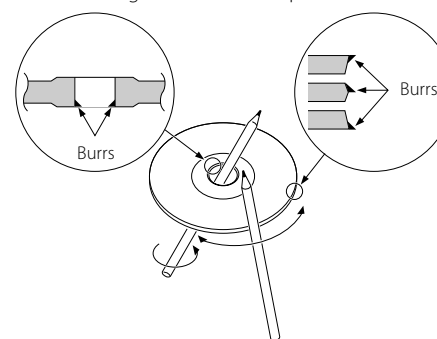
- Don't touch the recording surface of the CD.



- CD-R and CD-RW are easier to damage than a normal music CD. Use a CD-R or a CD-RW after reading the caution items on the package etc.
- Don't stick tape etc. on the CD. Also, don't use a CD with tape stuck on it.

When using a new CD

If the CD center hole or outside rim has burrs, use it after removing them with a ball pen etc.

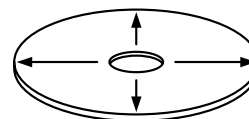


CD accessories

Don't use disc type accessories.

CD cleaning

Clean from the center of the disc and move outward.

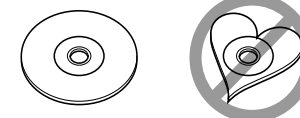


Removing CDs

When removing CDs from this unit pull them out horizontally.

CDs that can't be used

- CDs that aren't round can't be used.



- CDs with coloring on the recording surface or that are dirty can't be used.
- This unit can only play the CDs with



It may not correctly play discs which do not have the mark.

- A CD-R or CD-RW that hasn't been finalized can't be played. (For the finalization process refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)

CD storage

- Don't place them in direct sunlight (On the seat or dashboard etc.) and where the temperature is high.
- Store CDs in their cases.

Notes on playing MP3/WMA

Ez900HDS/Ez700SR can play MP3 (MPEG1, 2 Audio Layer 3)/WMA. Note, however, that the MP3/WMA recording media and formats acceptable are limited. When writing MP3/WMA, pay attention to the following restrictions.

Acceptable media

The MP3/WMA recording media acceptable to this unit are CD-ROM, CD-R, and CD-RW. When using CD-RW, do full format not quick format to prevent malfunction.

Acceptable medium formats

The following formats are available for the media used in this unit. The maximum number of characters used for file and folder name including the delimiter (".") and three-character extension are indicated in parentheses.

- ISO 9660 Level 1 (12 characters)
- ISO 9660 Level 2 (31 characters)
- Joliet (64 character; Up to 32 characters are displayed)
- Romeo (128 character; Up to 64 characters are displayed)
- Long file name (200 characters; Up to 64 characters are displayed)
- Maximum number of characters for folder name: 64 (Joliet; Up to 32 characters are displayed)

For a list of available characters, see the instruction manual of the writing software and the section Entering file and folder names below. The media reproducible on this unit has the following limitations:

- Maximum number of directory levels: 8
- Maximum number of files per folder: 255
- Maximum number of folders: 50
- Maximum number of files and folders: 512

MP3/WMA written in the formats other than the above may not be successfully played and their file names or folder names are not properly displayed.

Settings for your MP3/WMA encoder and CD writer

Do the following setting when compressing audio data in MP3/WMA data with the MP3/WMA encoder.

- Transfer bit rate: MP3: 8 —320 kbps
WMA: 48 —192 kbps
- Sampling frequency
MP3: 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz
WMA: 32, 44.1, 48 kHz

When you use your CD writer to record MP3/WMA up to the maximum disc capacity, disable additional writing. For recording on an empty disc up to the maximum capacity at once, check Disc at Once.



- Play mode may not be possible when portions of the functions of Windows Media Player 9 or higher are used.

Entering ID3 tag and Contents Description

The Displayable ID3 tag is ID3 version 1.x.

For the character code, refer to the List of Codes.

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0															
1															
2															
3															
4															
5															
6															
7															
8															
9															
A															
B															
C															
D															
E															
F															

Entering file and folder names

The code list characters are the only file names and folder names that can be entered and displayed. If you use any other character for entry, the file and folder names are not displayed correctly. They may neither be displayed correctly depending on the CD writer used.

The unit recognizes and plays only those MP3/WMA which have the MP3/WMA extension (.MP3/.WMA).



- A file with a name entered with characters not on the code list may not play correctly.

Writing files into a medium

When a medium containing MP3/WMA data is loaded, the unit checks all the data on the medium. If the medium contains a lot of folders or non-MP3/WMA files, therefore, it takes a long time until the unit starts playing MP3/WMA.

In addition, it may take time for the unit to move to the next MP3/WMA file or a File Search or Folder Search may not be performed smoothly.



Loading such a medium may produce loud noise to damage the speakers.

- Do not attempt to play a medium containing a non-MP3/WMA file with the MP3/WMA extension.
The unit mistakes non-MP3/WMA files for MP3/WMA data as long as they have the MP3/WMA extension.
- Do not attempt to play for non-MP3/WMA discs.

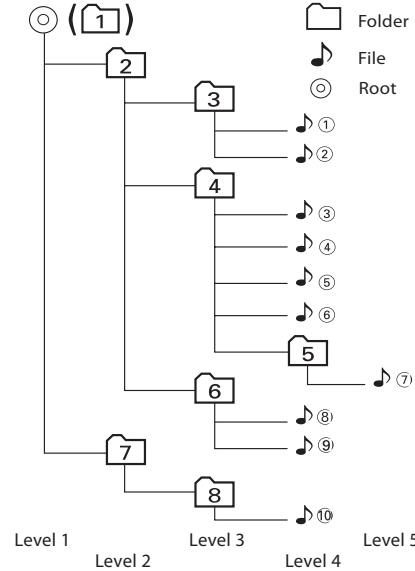
MP3/WMA playing order

When selected for play, Folder Search, File Search, or for Folder Select, files and folders are accessed in the order in which they were written by the CD writer.

Because of this, the order in which they are expected to be played may not match the order in which they are actually played. You may be able to set the order in which MP3/WMA data to be played by writing them onto a medium such as a CD-R with their file names beginning with play sequence numbers such as "01" to "99", depending on your CD writer.

For example, a medium with the following folder/file hierarchy is subject to Folder Search, File Search, or Folder Select as shown below.

Example of a medium's folder/file hierarchy



When a File Search is executed with file ④ being played ...

Operation of the knob	(Current file: ④)
⏮ Knob	Beginning of file ④ → ③
⏭ Knob	⑤ → ⑥

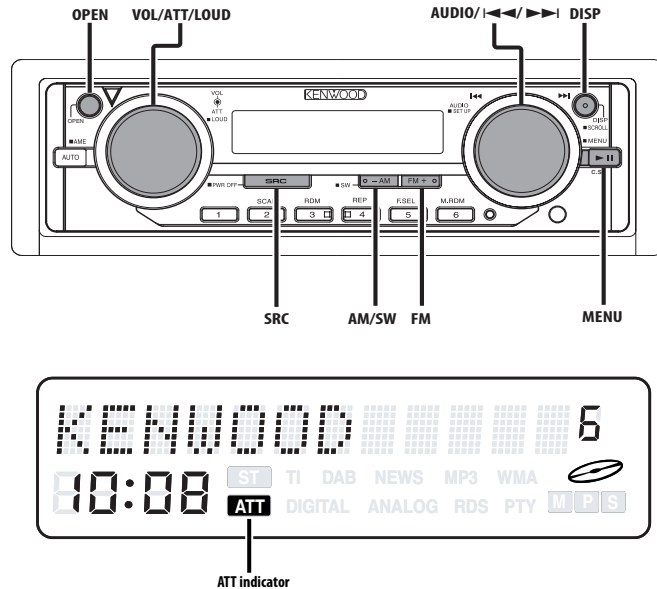
When a Folder Search is executed with file ④ being played ...

Operation of the button	(Current folder: ④)
AM Button	③ → ② → ① → ⑧ ...
FM Button	⑤ → ⑥ → ⑦ → ⑧ → ① ...

When Folder Select is selected with file ④ being played to move from folder to folder ...

Operation of the knob or button	(Current folder: ④)
⏮ Knob	③
⏭ Knob	⑥
AM Button	②
FM Button	⑤

General features



Power

Turning ON the Power

Press the [SRC] button.

Turning OFF the Power

Press the [SRC] button for at least 1 second.

Selecting the Source

Press the [SRC] button.

Source required	Display
SIRIUS	"SIRIUS"
HD Radio* ² (Ez900HDS)	"HD Radio"
Tuner* ² (Ez700SR) or HD Radio* ² (Ez700SR: Optional accessory)	"TUNER" or "HD Radio"
CD* ²	"CD"
External disc* ² (Optional accessory)	"CD CH"
Auxiliary input* ² (Optional accessory)	"AUX EXT"
Auxiliary input* ^{1, 2}	"AUX"
Standby (Illumination only mode)	"STANDBY"



- *¹ You can select this source when <Built-in Auxiliary input Setting> (page 32) is set to "AUX ON".

Subscribe to SIRIUS

- *² You can use for all source in this unit when you subscribe to SIRIUS receive the service by SIRIUS Satellite Radio. Refer to <Activating your SIRIUS subscription> (page 6).

Volume

Increasing Volume

Turn the [VOL] knob clockwise.

Decreasing Volume

Turn the [VOL] knob counterclockwise.

Attenuator

Turning the volume down quickly.

Press the [ATT] knob.

Each time the knob is pressed the Attenuator turns ON or OFF.
When it's ON, the "ATT" indicator blinks.

Loudness

Compensating for low and high tones during low volume.

Press the [LOUD] knob for at least 1 second.

Each time the knob is pressed for at least 1 second the Loudness turns ON or OFF.
When it's ON, "LOUD ON" is displayed.

Audio Control

1 Select the source for adjustment

Press the [SRC] button.

2 Enter Audio Control mode

Press the [AUDIO] knob.

3 Select the Audio / Sub item for adjustment

For Audio item : Press the [AUDIO] knob.
Each time the knob is pressed the audio items that can be adjusted switch as shown below.
For Sub item : Press the [FM] / [AM] button.
Each time the button is pressed the sub items switches when audio item selected for Bass, Middle and Treble level.

4 Adjust the Audio / Sub item

Turn the [◀◀] / [▶▶] knob.

Audio Item [Sub Item]	Display	Range
Sub woofer level* ¹	"SW Level"	-15 — +15
Bass [level]	"Bass"	-8 — +8
[Center Frequency]* ²	"Bass F"	60/70/80/100 or 150 Hz
[Extend]* ²	"Bass EXT"	ON/OFF
[Q Factor]* ²	"Bass Q"	1.00/1.25/1.50/2.00
Middle [level]	"Middle"	-8 — +8
[Center Frequency]* ²	"MID F"	0.5/1.0/1.5/2.0 kHz
[Q Factor]* ²	"Middle Q"	1.0/2.0
Treble [level]	"Treble"	-8 — +8
[Center Frequency]* ²	"TRE F"	10.0/12.5/15.0/17.5 kHz
Balance	"Balance"	Left 15 — Right 15
Fader	"Fader"	Rear 15 — Front 15



- According to the Bass Q Factor setting value, the frequencies that can be set in Bass Center Frequency change as shown below.

Bass Q Factor	Bass Center Frequency
1.00/1.25/1.50	60/70/80/100
2.00	60/70/80/150

- When the Bass Extend is set to ON, low frequency response is extended by 20%.
- *¹ This mode is available only when <Subwoofer Output> (page 14) is ON.
- *² This mode is available only when <System Q Setting> (page 29) is ON.

5 Exit Audio Control mode

Press the [AUDIO] knob for at least 1 second.

Audio Setup

1 Select the source for adjustment

Press the [SRC] button.

2 Enter Audio Setup mode

Press the [AUDIO] knob for at least 1 second.

3 Select the setup item for adjustment

Press the [AUDIO] knob.

Each time the knob is pressed the items that can be adjusted switch as shown below.

4 Adjust the Audio Setup item

Turn the [◀◀] / [▶▶] knob.

Setup Item	Display	Range [Sound setting]
System Q* ¹	"Flat/User/Rock/Pops/Easy/Top40/Jazz"	[Flat/User memory/Rock/Pops/Easy/Top40/Jazz]
Front High Pass Filter	"HPF F"	Through/100/125/170 Hz
Rear High Pass Filter	"HPF R"	Through/200Hz
Sub woofer Low Pass Filter* ²	"LPF SW"	50/80/120/Through Hz
Volume offset	"V- Offset"	-8 — ±0



- *¹System Q: You can recall the best sound setting preset for different types of music.
- User memory: The values set on the <Audio Control> (page 11).
- Each setting value is changed with the <Speaker Setting> (page 12).
- First, select the speaker type with the Speaker setting.
- *² This mode is available only when <Subwoofer Output> (page 14) is ON.
- Volume offset: Each source's volume can be set as a difference from the basic volume.

5 Exit Audio Setup mode

Press the [AUDIO] knob for at least 1 second.

General features

Speaker Setting

Fine-tuning so that the System Q value is optimal when setting the speaker type.

1 Enter Standby

Press the [SRC] button.

Select the "STANDBY" display.

2 Enter Speaker Setting mode

Press the [AUDIO] knob.

3 Select the Speaker type

Turn the [◀▶] / [▶▶] knob.

Each time the knob is turned the setting switches as shown below.

Speaker type	Display
OFF	"SP OFF"
For 5 & 4 in. speaker	"SP 5/4 inch"
For 6 & 6x9 in. speaker	"SP 6*9/6 inch"
For the OEM speaker	"SP O.E.M."

4 Exit Speaker Setting mode

Press the [AUDIO] knob.

Switching Display

Switching the information displayed.

Press the [DISP] button.

Each time the button is pressed the display switches as shown below.

In Tuner source

Information	Display
Station name or Frequency	"BAND+SNPS"
Frequency	"BAND+FREQ"

In CD & External disc source

Information	Display
Disc title	"D-TITLE"
Track title	"T-TITLE"
Track number & Play time	"P-Time"
Disc name	"DNPS"

In MP3/WMA source

Information	Display
Song title & Artist name	"TITLE"
Album name & Artist name	"ALBUM"
Folder name	"FOLDER NAME"
File name	"FILE NAME"
Track number & Play time	"P-Time"

In SIRIUS source

Information	Display
Channel name	"Channel Name"
Song Title	"Song Title"
Artist name	"Artist Name"
Composer name	"Composer"
Category name	"Category"
Band & Channel number	"Channel No"

In HD Radio source

Information	Display
Station name	"Station Name"
Song title/ Artist name/ Album name/ Genre	"Title"
Frequency	"Frequency"

In Auxiliary input source

Information
Auxiliary input name



- If the Disc title, Track title, Song title & Artist name, or Album name & Artist name is selected when the disc which does not have Disc title, Track title, Song title, Album name, or Artist name is played, track number and play time are displayed.
- The Album name cannot be displayed during WMA play.
- If the text, including Channel name, etc. is selected when the channel which does not have text, including Channel name, etc. is played, band & channel number is displayed. (In SIRIUS source)
- Displayed information except "Frequency" are shown only when you receive text in digital broadcasting. If text cannot be displayed, frequency will be shown. (In HD Radio source)
- Display mode setting item (LX AMP) can be displayed when connecting the LX AMP unit.

Station/Disc Naming (SNPS/DNPS)

Attaching a title to a Station or CD.

1 Receive/play the station/disc you want to attach a title to



- Refer to the <Switching Display> (page 12) and select either "DNPS" or "SNPS". No name can be attached to the source if "DNPS" or "SNPS" cannot be selected for it.

2 Enter name set mode

Press the [DISP] button for at least 2 seconds. "NAME SET" is displayed.

3 Move the cursor to the enter character position

Press the [AUDIO] knob.



- This function can be used the [FM] / [AM] button.

4 Select the character type

Press the [MENU] button.

Each time the button is pressed the character type switches as shown below.

Character type
Alphabet upper case
Alphabet lower case
Numbers and symbols
Special characters (Accent characters)

5 Select the characters

Turn the [◀▶] / [▶▶] knob.



- Characters can be entered by using a remote with a number buttons.
Example: If "DANCE" is entered.

Character	Button	Times pressed
"D"	[3]	1
"A"	[2]	1
"N"	[6]	2
"C"	[2]	3
"E"	[3]	2

6 Repeat steps 3 through 5 and enter the name.

7 Exit name set mode

Press the [DISP] button.



- When operation stops for 10 seconds the name at that time is registered, and Name Set mode closes.
- Memory numbers
 - FM: 32 stations
 - AM: 16 stations
 - Internal CD player: 30 discs
 - External CD changer/ player: Varies according to the CD changer/ player. Refer to the CD changer/ player manual.
- The title of station/CD can be changed by the same operation used to name it.

Auxiliary Input Display Setting

Selecting the display when this device is switched to Auxiliary input source.

1 Select Auxiliary input source

Press the [SRC] button.

Select the "AUX"/"AUX EXT" display.

2 Enter Auxiliary input display setting mode

Press the [DISP] button for at least 2 seconds.

The presently selected AUX Name is blinks.

3 Select the Auxiliary input display

Turn the [◀▶] / [▶▶] knob.

Each time the knob is turned it switches through the below displays.

- "AUX"/"AUX EXT"
- "TV"
- "VIDEO"
- "GAME"
- "PORTABLE"
- "DVD"

4 Exit Auxiliary input display setting mode

Press the [DISP] button.



- When operation stops for 10 seconds, the name at that time is selected, and Auxiliary input display setting mode closes.
- The Auxiliary Input Display (AUX) can be set only when <Built-in Auxiliary input Setting> (page 32) is set to "AUX ON".
- The Auxiliary Input Display (AUX EXT) can be set only when the auxiliary input of optional KCA-S210A is used.

General features

Subwoofer Output

Turning the Subwoofer output ON or OFF.

Press the [SW] button for at least 1 second.
Each time the button is pressed Subwoofer output switches ON or OFF.
When it's ON, "Sub-W ON" is displayed.

TEL Mute

The audio system automatically mutes when a call comes in.

When a call comes in

"CALL" is displayed.
The audio system pauses.

Listening to the audio during a call

Press the [SRC] button.
The "CALL" display disappears and the audio system comes back ON.

When the call ends

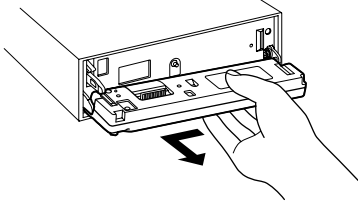
Hang up the phone.
The "CALL" display disappears and the audio system comes back ON.

Theft Deterrent Faceplate

The faceplate of the unit can be detached and taken with you, helping to deter theft.

Removing the Faceplate

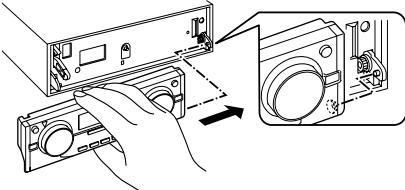
- 1 Press the [OPEN] button.**
Drop open the faceplate.
- 2 Drawing the faceplate to left side pull it to the front and remove it.**



- The faceplate is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the faceplate in its special storage case while detached.
- Do not expose the faceplate or its storage case to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

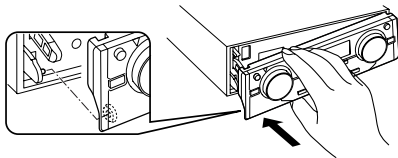
Reattaching the Faceplate

- 1 Align the shaft on the unit with the depression on the faceplate.**



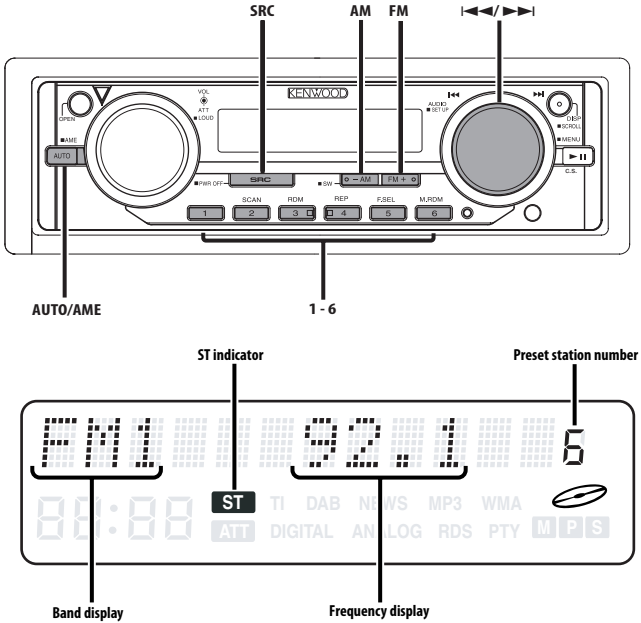
- 2 Push the faceplate in until it clicks.**

The faceplate is locked in place, allowing you to use the unit.



Function of the Ez700SR

Tuner features



Tuning

Selecting the station.

- 1 Select tuner source**
Press the [SRC] button.
Select the "TUNER" display.
- 2 Select the band**
Press the [FM] / [AM] button.
Each time the [FM] button is pressed it switches between the FM1, FM2, and FM3 bands.
- 3 Tune up or down band**
Turn the [◀▶] / [▶▶] knob.



- During reception of stereo stations the "ST" indicator is ON.

Tuning Mode

Choose the tuning mode.

Press the [AUTO] button.

Each time the button is pressed the Tuning mode switches as shown below.

Tuning mode	Display	Operation
Auto seek	"Auto 1"	Automatic search for a station.
Preset station seek	"Auto 2"	Search in order of the stations in the Preset memory.
Manual	"Manual"	Normal manual tuning control.

Function of remote

Direct Access Tuning

Entering the frequency and tuning.

- 1 Select the band**
Press the [FM] / [AM] button.
- 2 Enter Direct Access Tuning mode**
Press the [DIRECT] button on the remote.
"---" is displayed.
- 3 Enter the frequency**
Press the number buttons on the remote.

Example:

Desired frequency	Press button
92.1 MHz (FM)	[0], [9], [2], [1]
810 kHz (AM)	[0], [8], [1], [0]

Canceling Direct Access Tuning

Press the [DIRECT] button on the remote.



- If you make no button operation for 10 seconds, the Direct Access Tuning mode is automatically canceled.

Station Preset Memory

Putting the station in the memory.

- 1 Select the band**
Press the [FM] / [AM] button.
- 2 Select the frequency to put in the memory**
Turn the [◀◀] / [▶▶] knob.
- 3 Put the frequency in the memory**
Press the desired [1] — [6] button for at least 2 seconds.

The preset number display blinks 1 time.
On each band, 1 station can be put in the memory on each [1] — [6] button.

Auto Memory Entry

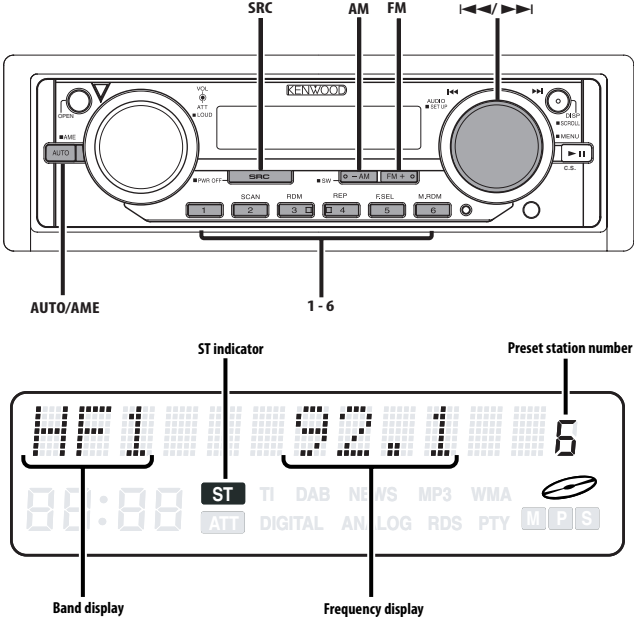
Putting stations with good reception in the memory automatically.

- 1 Select the band for Auto Memory Entry**
Press the [FM] / [AM] button.
- 2 Open Auto Memory Entry**
Press the [AME] button for at least 2 seconds.
When 6 stations that can be received are put in the memory Auto Memory Entry closes.

Preset Tuning

Calling up the stations in the memory.

- 1 Select the band**
Press the [FM] / [AM] button.
- 2 Call up the station**
Press the desired [1] — [6] button.



NOTE

With the HD Radio tuner, you can use the similar functions to <Tuning Mode>, <Station Preset Memory>, <Auto Memory Entry>, and <Preset Tuning> of Tuner features. Refer to Tuner features (page 15,16) for how to use the functions.

Tuning

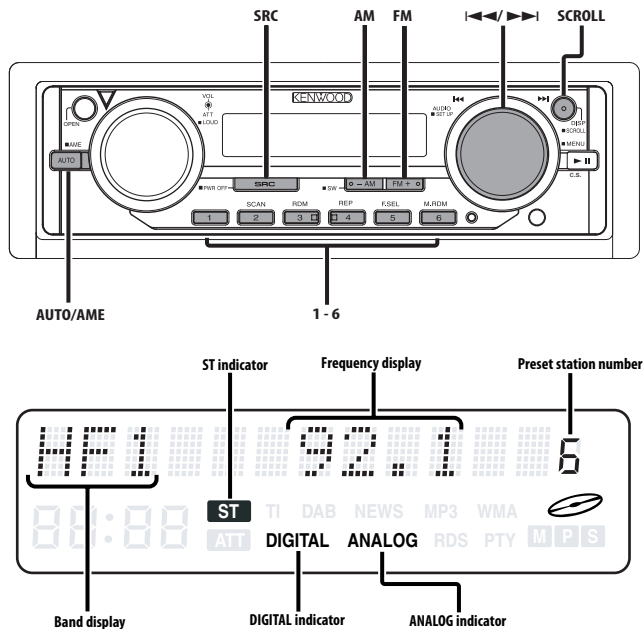
Selecting the station.

- 1 Select HD Radio source**
Press the [SRC] button.
Select the "HD Radio" display.
- 2 Select the band**
Press the [FM] button.
Each time the [FM] button is pressed it switches between the HF1, HF2, and HF3 bands.
When the [AM] button is pressed, it switches HA band.

- 3 Tune up or down band**
Turn the [◀◀] / [▶▶] knob.



- When you connect an HD Radio, Tuner features of the unit are disabled and switched to HD Radio tuner features. A portion of the setting methods including the Tuning Mode will change.
- During reception of stereo stations the "ST" indicator is ON.
- The setting of the CRSC is always ON. Switching to OFF is not possible.
- Using <Receive mode Setting> (page 30) the modes can be switched to digital broadcast automatic switching, analog broadcast only, or digital broadcast only.
- When "Digital" has been set with <Receive mode Setting> (page 30), the seek time will be longer to allow a check of whether the transmission is a digital broadcast.



Tuning

Selecting the station.

1 Select HD Radio source
Press the [SRC] button.

Select the "HD Radio" display.

2 Select the band
Press the [FM] button.

Each time the [FM] button is pressed, it switches between the HF1, HF2, and HF3 bands.

When the [AM] button is pressed, it switches HA band.

3 Tune up or down band
Turn the [I<=>I / I>=>I] knob.



- When "DIGITAL" indicator is displayed that digital broadcast is being received.
- When "ANALOG" indicator is displayed that analog broadcast is being received.
- During reception of stereo stations the "ST" indicator is ON.

- Using <Receive mode Setting> (page 30) the modes can be switched to digital broadcast automatic switching, analog broadcast only, or digital broadcast only.
- When "Digital" has been set with <Receive mode Setting> (page 30), the seek time will be longer to allow a check of whether the transmission is a digital broadcast.

Tuning Mode

Choose the tuning mode.

Press the [AUTO] button.

Each time the button is pressed the Tuning mode switches as shown below.

Tuning mode	Display	Operation
Auto seek	"Auto 1"	Automatic search for a station.
Preset station seek	"Auto 2"	Search in order of the stations in the Preset memory.
Manual	"Manual"	Normal manual tuning control.

Station Preset Memory

Putting the station in the memory.

- 1 Select the band**
Press the [FM] / [AM] button.
- 2 Select the frequency to put in the memory**
Turn the [I<=>I / I>=>I] knob.
- 3 Put the frequency in the memory**
Press the desired [1] — [6] button for at least 2 seconds.
The preset number display blinks 1 time.
On each band, 1 station can be put in the memory on each [1] — [6] button.

Auto Memory Entry

Putting stations with good reception in the memory automatically.

- 1 Select the band for Auto Memory Entry**
Press the [FM] / [AM] button.
- 2 Open Auto Memory Entry**
Press the [AME] button for at least 2 seconds.
When 6 stations that can be received are put in the memory Auto Memory Entry closes.

Preset Tuning

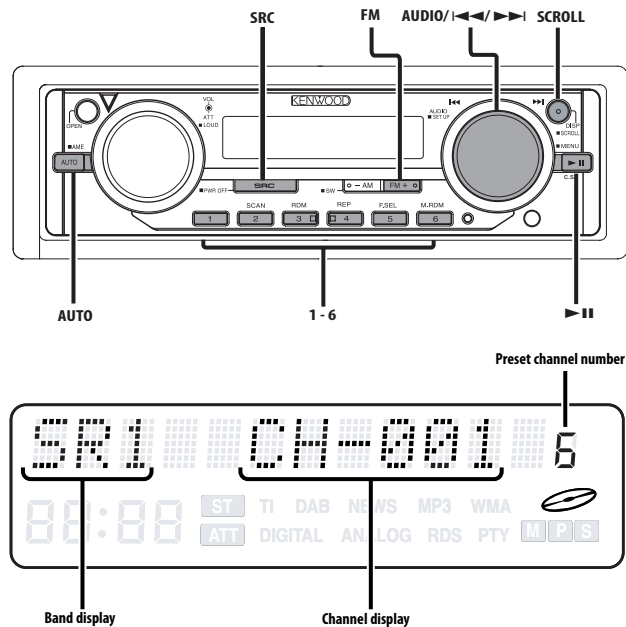
Calling up the stations in the memory.

- 1 Select the band**
Press the [FM] / [AM] button.
- 2 Call up the station**
Press the desired [1] — [6] button.

Text Scroll

Scrolls the displayed title.

Press the [SCROLL] button for at least 1 second.



Selecting SIRIUS source

Selecting SIRIUS source

Press the [SRC] button.
Select the "SIRIUS" display.

- You need to subscribe to SIRIUS receive the service by SIRIUS Satellite Radio. Consult SIRIUS if "CALL 888-539 SIRIUS TO SUBSCRIBE" appears. Refer to <Activating your SIRIUS subscription> (page6).
- It may take a little time to start receiving after you selected the SIRIUS source.
- If you cannot receive any signal in the input Channel due to a bad condition on radio wave or another problem, "Acquiring Signal" appears.

Selecting the Preset Band

Press the [FM] button.
Each time the button is pressed the preset band switches between the SR1, SR2, SR3 and SR4.

Tuning

Selecting the channel.
Turn the [◀◀] / [▶▶] knob.

Channel Preset Memory

Putting the channels in the memory.

- 1 Select the band**
Press the [FM] button.
- 2 Select the channel to put in the memory**
Turn the [◀◀] / [▶▶] knob.
- 3 Put the channel in the memory**
Press the desired [1] — [6] button for at least 2 seconds.
The preset number display blinks 1 time.
On each band, 1 channel can be put in the memory on each [1] — [6] button.

Preset Tuning

Calling up the channels in the memory.

- 1 Select the band**
Press the [FM] button.
- 2 Call up the channel**
Press the desired [1] — [6] button.

Channel Scan

Every receivable Channel is checked for 10 seconds.

- 1 Start Channel Scan**
Press the [AUTO] button for at least 1 second.
The channel number display blinks.
- 2 Release it when the song you want to listen to is received**
Press the [AUTO] button for at least 1 second.

Switching Seek Mode

Sets the seeking mode.

Press the [AUTO] button.
Each time the button is pressed the Seek mode switches as shown below.

Display	Operation
"Channel"	Normal manual seeking control.
"Preset"	Search in order of the channels in the Preset memory.

Channel Skip/ Lock function

You can Skip and Lock unwanted channels while tuning and prohibit access particular channels.

Channel Skip:
With hundreds over of Channel available, you may wish to limit the accessible listed only those you like.


Channel Lock:
You can LOCK particular channels so that can be accessed only with Lock Code (4 digit code) that you define. Channel Lock function useful for preventing their children access to specific content.

- You can choose the skip and lock channels with <Preset Tuning> (page 21) and <Direct Access Tuning> (page 22).
- Refer to <SIRIUS Channel Skip/ Lock Setting> (page31) and <SIRIUS Lock Code Setting> (page32).


Listen to Channel Lock content
When you choose the Lock Channels directory with <Preset Tuning> (page 21) or <Direct Access Tuning> (page 22). When you choose Lock Channel, "CODE ----" is appeared on display. You can listen the channel when input Lock Code (4 digit) is correctly.

- 1 Select the digits to enter**
Press the [AUDIO] knob.
 - This function can be used the [FM] / [AM] button.
- 2 Select the Lock Code numbers**
Turn the [◀◀] / [▶▶] knob.
- 3 Repeat steps 1 and 2, and complete the Lock Code.**
- 4 Confirm the Lock Code**
Press the [AUDIO] knob for at least 1 second.
"APPROVED" is displayed.
 - When the wrong code is entered, this function is canceled.

Category and Channel Search

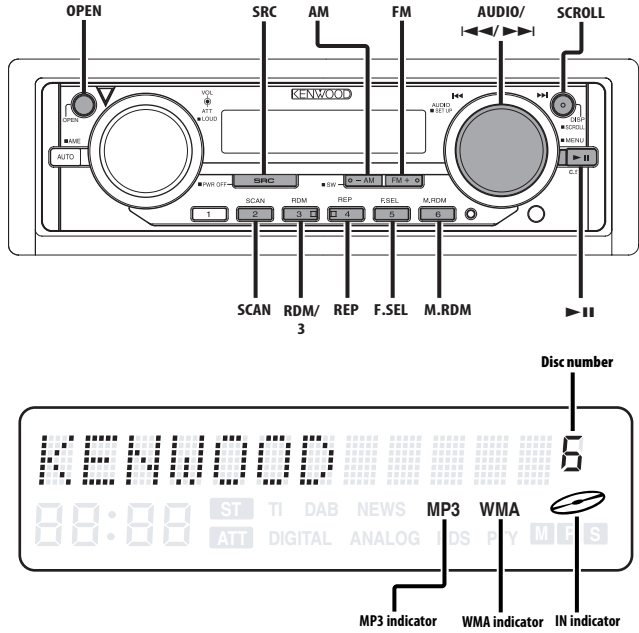
- Select the category and channel you wish to listen to.
- 1 Enter category and channel search mode**
Press the [▶II] button.
 - 2 Select the item (category or channel)**
Press the [AUDIO] knob.
Each time the knob is pressed the search mode switches category or channel.
 - 3 Select the category or channel**
Turn the [◀◀] / [▶▶] knob.
 - 4 Canceling category and channel search mode**
Press the [▶II] button.
-  You cannot operate this function until all the Category information is acquired.

Function of remote
Direct Access Tuning

- Entering the channel and tuning.
- 1 Enter Direct Access Tuning mode**
Press the [DIRECT] button on the remote.
 - 2 Enter the channel**
Press the number buttons.
 - 3 Do Channel Search**
Press the [◀◀] / [▶▶] button.
- Canceling Direct Access Tuning**
Press the [DIRECT] button on the remote.
-  If you make no button operation for 10 seconds, the Direct Access Tuning mode is automatically canceled.
- You can set up until Channel number 223.
 - You cannot search for channel number which is not broadcasting.

Text Scroll


- Scrolls the displayed channel name and other items.
- Press the [SCROLL] button for at least 1 second.



Playing External Disc

- Playing discs set in the optional accessory disc player connected to this unit.
- Press the [SRC] button.**
Select the display for the disc player you want.
- Display examples:**
- | Display | Disc player |
|---------|-------------|
| "CD2" | CD player |
| "CD CH" | CD changer |
| "MD CH" | MD changer |

Pause and play
Press the [▶II] button.

- Each time the button is pressed it pauses and plays.
-  Disc 10 is displayed as "0".
- The functions that can be used and the information that can be displayed will differ depending on the external disc players being connected.

Playing CD & MP3/WMA

When there is no disc inserted

- 1 Drop open the faceplate
Press the [OPEN] button.
- 2 Insert a disc.
- 3 Press the faceplate on the left side, and return it to its former position.



- When the faceplate has been dropped open, it might interfere with the shift lever or something else. If this happens, pay attention to safety and move the shift lever or take an appropriate action, then operate the unit.
- Do not use the unit with the faceplate in the open condition. If it's used in the open position dust can enter the inside part and cause damage.



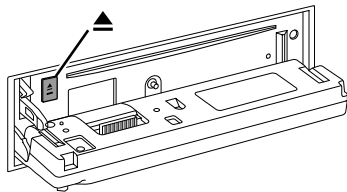
- When a disc is inserted, the "IN" indicator is ON.
- During MP3 is playing, the "MP3" indicator is ON.
- During WMA is playing, the "WMA" indicator is ON.

When a disc is inserted
Press the [SRC] button.
Select the "CD" display.

Pause and play
Press the [▶II] button.
Each time the button is pressed it pauses and plays.

Eject the disc

- 1 Drop open the faceplate
Press the [OPEN] button.
- 2 Eject the disc
Press the [▲] button.



- 3 Press the faceplate on the left side, and return it to its former position.



- 3 in. (8cm) disc can't be played. Using an adapter and inserting them into this unit can cause damage.



- The MP3/WMA media that this unit can play are CD-ROM, CD-R, and CD-RW.
The medium formats must be ISO 9660 Level 1, Level 2, Joliet, or Romeo. The methods and precautions to be followed for writing MP3/WMA data are covered in <Notes on playing MP3/WMA> (page 8).
Check that section before creating your MP3/WMA media.

Fast Forwarding and Reversing

Fast Forwarding
Hold turn on the [▶▶] knob.
Release your finger to play the disc at that point.

Reversing
Hold turn on the [◀◀] knob.
Release your finger to play the disc at that point.



- The sound is not output while the MP3/WMA is played.

Track/File Search

Searching for a song on the disc or in the MP3/WMA folder.
Turn the [◀◀] / [▶▶] knob.

Function of disc changer/ MP3/ WMA
Disc Search/Folder Search

Selecting the disc set in the Disc changer or the folder recorded on the MP3/WMA media.
Press the [AM] / [FM] button.

Function of remote
Direct Track/File Search

Doing Track/File Search by entering the track/file number.

- 1 Enter the track/file number
Press the number buttons on the remote.
- 2 Do Track/File Search
Press the [◀◀] / [▶▶] button.

Canceling Direct Track/File Search
Press the [▶II] button.

Function of disc changers with remote
Direct Disc Search

Doing Disc Search by entering the disc number.

- 1 Enter the disc number
Press the number buttons on the remote.
- 2 Do Disc Search
Press the [DISC-] / [DISC+] button.

Canceling Direct Disc Search
Press the [▶II] button.



- Input "0" to select disc 10.

Track/File/Disc/Folder Repeat

Replaying the song, disc in the Disc changer or MP3/WMA folder you're listening to.
Press the [REP] button.
Each time the button is pressed the Repeat Play switches as shown below.

In CD & External disc source

Repeat play	Display
Track Repeat	"Repeat ON"/"T-Repeat ON"
Disc Repeat (In Disc Changer)	"D-Repeat ON"
OFF	"Repeat OFF"

In MP3/WMA source

Repeat play	Display
File Repeat	"File REP ON"
Folder Repeat	"FOLD REP ON"
OFF	"Repeat OFF"

Scan Play

Playing the first part of each song on the disc or MP3/WMA folder you are listening to and searching for the song you want to listen to.

- 1 Start Scan Play
Press the [SCAN] button.
"Scan ON" is displayed.
- 2 Release it when the song you want to listen to is played
Press the [SCAN] button.

Random Play

Play all the songs on the disc or MP3/WMA folder in random order.

Press the [RDM] button.
Each time the button is pressed Random Play turns ON or OFF.
When it's ON, "Random ON" is displayed.



- When the [▶▶] knob is turned, the next song select starts.

Function of disc changer
Magazine Random Play

Play the songs on all the discs in the disc changer in random order.

Press the [M.RDM] button.
Each time the button is pressed the Magazine Random Play turns ON or OFF.
When it's ON, "M-Random ON" is displayed.



- When the [▶▶] knob is turned, the next song select starts.

CD/MP3/WMA/External disc control features

Function of MP3/WMA

Folder Select

Quickly selecting the folder you want to listen to.

1 Enter Folder Select mode

Press the [F.SEL] button.

"Select Mode" is displayed.

During Select mode the folder information is displayed as shown below.

Folder name display

Displays the current folder name.



2 Select the folder level

Press the [FM] / [AM] button.

With the [FM] button you move 1 level down and with the [AM] button 1 level up.

Selecting a folder in the same level

Turn the [◀▶] / [▶▶] knob.

With the [◀▶] knob you move to the previous folder, and with the [▶▶] knob to the next folder.

Returning to the top level

Press the [3] button.

3 Decide the folder to play

Press the [AUDIO] knob.

The Folder Select mode releases, and the MP3/WMA in the folder being displayed is played.



- The methods for moving to other folders in the folder select mode are different from those in the folder search mode.

See <Notes on playing MP3/WMA> (page 8) for details.

Canceling the Folder Select mode

Press the [F.SEL] button.

Text/Title Scroll

Scrolling the displayed CD text, MP3/WMA text, or MD title.

Press the [SCROLL] button for at least 1 second.

Function of disc changers with remote

DNPP (Disc Name Preset Play)

Selecting the CD displayed in the DNPS of the CDs set in the Disc changer.

1 Enter DNPP mode

Press the [DNPP] button on the remote.

When "DNPP" is displayed the DNPS display in order.

Forward / Reverse display

Press the [DISC+] / [DISC-] button.

2 When the disc you want is displayed

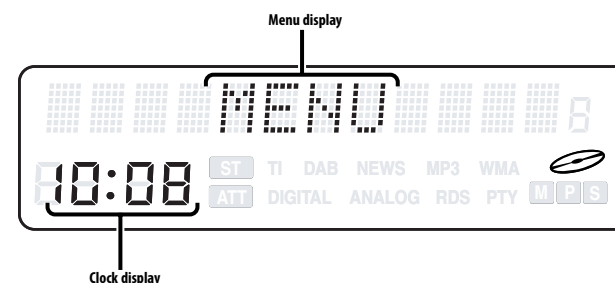
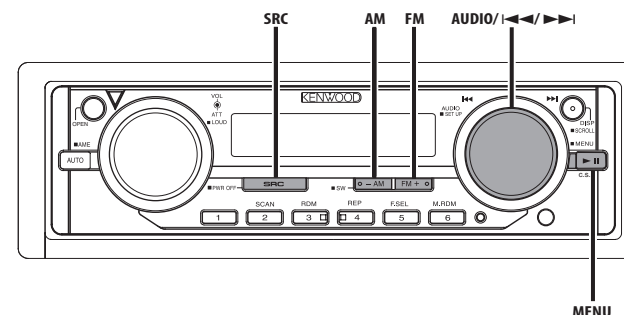
Press the [OK] button on the remote.

The disc being displayed is played.

Canceling the DNPP mode

Press the [DNPP] button on the remote.

Menu system



Menu System

Setting during operation beep sound etc. functions.

The Menu system basic operation method is explained here. The reference for the Menu items and their setting content is after this operation explanation.

1 Enter Menu mode

Press the [MENU] button for at least 1 second.

"MENU" is displayed.

2 Select the menu item

Press the [AUDIO] knob.

Example: When you want to set the beep sound select the "Beep" display.



- This function can be used the [FM] / [AM] button.

3 Set the menu item

Turn the [◀▶] / [▶▶] knob.

Example: When "Beep" is selected, each time the knob is turned it switches "Beep ON" or "Beep OFF". Select 1 of them as the setting.

You can continue by returning to step 2 and setting other items.

4 Exit Menu mode

Press the [MENU] button for at least 1 second.



- When other items that are applicable to the basic operation method above are displayed afterwards their setting content chart is entered. (Normally the uppermost setting in the chart is the original setting.) Also, the explanation for items that aren't applicable ('Manual Clock Adjustment' etc.) are entered step by step.

Menu system

In Standby mode

Security Code

Because authorization by the Security Code is required when it's removed from the vehicle, personalizing this unit is by using the Security Code is a help in preventing theft.



- When the Security Code function is activated, the code can't be changed and the function can't be released. Note, the Security Code can be set as the 4 digit number of your choice.

1 Enter Standby

Press the [SRC] button.

Select the "STANDBY" display.

2 Enter Menu mode

Press the [MENU] button for at least 1 second.

When "MENU" is displayed, "Security" is displayed.

3 Enter Security Code mode

Press the [MENU] button.

When "ENTER" is displayed, "CODE" is displayed.

4 Select the digits to enter

Press the [AUDIO] knob.



- This function can be used the [FM] / [AM] button.

5 Select the Security Code numbers

Turn the [◀◀] / [▶▶] knob.

6 Repeat steps 4 and 5, and complete the Security Code.

7 Confirm the Security Code

Press the [AUDIO] knob for at least 3 seconds.

When "RE-ENTER" is displayed, "CODE" is displayed.

8 Do the step 4 through 7 operation, and reenter the Security Code.

"APPROVED" is displayed.

The Security Code function activates.



- When the wrong Code is entered in steps 4 through 6, repeat from step 4.

Press the Reset button and when it's removed from the battery power source

1 Turn the power ON.

2 Do the step 4 through 7 operation, and enter the Security Code.

"APPROVED" is displayed.

The unit can be used.

Touch Sensor Tone

Setting the operation check sound (beep sound) ON or OFF.

Display	Setting
"Beep ON"	Beep is heard.
"Beep OFF"	Beep canceled.

Manual Clock Adjustment

1 Select Clock Adjustment mode

Press the [AUDIO] knob.

Select the "Clock Adjust" display.



- This function can be used the [FM] / [AM] button.

2 Enter Clock Adjust mode

Press the [MENU] button.

The time indicator (hours) is blinks.

3 Select the item (hours or minutes)

Press the [AUDIO] knob.



- This function can be used the [FM] / [AM] button.

4 Adjust the hours or minutes

Turn the [◀◀] / [▶▶] knob.

5 Exit Clock adjustment mode

Press the [MENU] button.

Clock Display

Setting the clock display ON or OFF.

Display	Setting
"Clock ON"	The clock are displayed.
"Clock OFF"	The clock aren't displayed.

DSI (Disabled System Indicator)

A red indicator will blink on the unit after the faceplate is removed, warning potential thieves.

Display	Setting
"DSI ON"	LED flashes.
"DSI OFF"	LED OFF.

Selectable Illumination

Selecting the button illumination color as green or red.

Display	Setting
"Button Red"	The illumination color is red.
"Button Green"	The illumination color is green.

Contrast Adjustment

Adjusting the display contrast.

Display and Setting
"Contrast 0"
⋮
"Contrast 7" (Original setting)
⋮
"Contrast 10"

Dimmer

Dimming this unit's display automatically when the vehicle light switch is turned ON.

Display	Setting
"Dimmer ON"	The display dims.
"Dimmer OFF"	The display doesn't dim.

System Q Setting

Setting whether the display indicates the System Q factors (Bass center frequency, Bass Q factor, Bass extend, Middle center frequency, Middle Q factor, and Treble center frequency) in Audio control.

Display	Setting
"SystemQ ON"	The System Q factors are displayed.
"SystemQ OFF"	The System Q factors aren't displayed.

In Standby mode

Built-in Amp Mute Setting

Toggles ON or OFF the mute control on the built-in amplifier.

Turning ON this control enhances the preout quality.

Display	Setting
"AMP Mute OFF"	The built-in amplifier activates.
"AMP Mute ON"	The built-in amplifier deactivates.

In Built-in Auxiliary input source

Dual Zone System

Makes the sound different for the front channel and rear channel.

Display	Setting
"Zone2 OFF"	The front and rear are the same source sound.
"Zone2 ON"	The front and rear are the different source sound.



- When the Dual Zone System is on, there is only sound effect including Audio control for except selected source.
- When you set the Dual zone system to ON while the sub woofer preout is switched ON, the sound of the sub woofer preout isn't output.

When the Dual Zone System is OFF

Dual Zone System Setting

Setting the Front channel and Rear channel sound in the Dual Zone System.

Display	Setting
"Zone2 Rear"	The front is except the rear selected source, and the rear is selected source sound.
"Zone2 Front"	The rear is except the front selected source, and the front is selected source sound.

B.M.S. (Bass Management System)

Adjust the bass boost level of the external amplifier using the main unit.

Display	Setting
"AMP Bass FLT"	Bass boost level is flat.
"AMP Bass +6"	Bass boost level is low (+6dB).
"AMP Bass +12"	Bass boost level is mid (+12dB).
"AMP Bass +18"	Bass boost level is high (+18dB).



- Refer to the catalog or instruction manual for power amplifiers that can be controlled from this unit.
- For amplifiers there are the model that can be set from Flat to +18 dB, and the model that can be set from Flat to +12 dB.
- When an amplifier that can only be set to +12 is connected to the unit, "AMP Bass +18" won't work correctly even if it's selected.

B.M.S. Frequency Offset

Setting the central frequency boosted by B.M.S.

Display	Setting
"AMP Freq NML"	Boost with the normal central frequency.
"AMP Freq Low"	Drop the normal central frequency 20%.

In HD Radio mode

Receive mode Setting

Sets the receive mode.

1 Select the Receive mode

Press the [AUDIO] knob.

Select the "Receive Mode" display.



- This function can be used the [FM] / [AM] button.

2 Enter Receive mode

Press the [MENU] button.

3 Set the Receive mode

Press the [AUDIO] knob.

Each time the knob is pressed the Receive mode switches as shown below.

Receive mode	Display	Operation
Auto mode	"Auto"	Analog broadcasts and digital broadcasts will be switched automatically. When both are being transmitted, the digital broadcast will have priority.
Digital	"Digital"	Digital broadcasts only.
Analog	"Analog"	Analog broadcasts only.



- This function can be used the [FM] / [AM] button.

4 Exit Receive mode

Press the [MENU] button.



- Even if the "Auto" setting, an analog broadcast will be received during the reception of a ball game mode (non-delayed broadcast program).

In FM reception (Ez700SR)

In HD Radio (FM) mode (Ez900HDS)

CRSC (Clean Reception System Circuit)

Temporarily have reception switched from stereo to mono to reduce multi-path noise when listening to the FM station.

Display	Setting
"CRSC ON"	The CRSC is ON.
"CRSC OFF"	The CRSC is OFF.



- Strong electrical fields (such as from power lines) may cause unstable sound quality when CRSC is turned ON. In such a situation, turn it OFF.

In SIRIUS source

SIRIUS ID (ESN) display

Displaying the SIRIUS ID (Electronic Serial Number) display.

Display

"ESN = *****"



- Serial & SIRIUS ID (ESN)

It is especially important to retain the unit serial number and the electronic SIRIUS Identification number for service activation and potential future service changes.

In SIRIUS source

SIRIUS Channel Skip/ Lock Setting

You can Skip and Lock unwanted channels while tuning and prohibit access to the particular channels. (Channel Lock function without channel number 184)

1 Select Channel Skip/ Lock mode

Press the [AUDIO] button.

Select the "Skip/ Lock" display.



- This function can be used the [FM] / [AM] button.

2 Enter Channel Skip/ Lock mode

Press the [MENU] button.

"CH- *** - - " is displayed.

3 Select the channels

Turn the [◀◀] / [▶▶] knob.

4 Set the item (Channel Skip or Lock)

For Channel Skip:

Press the [AUDIO] knob.

When it's ON, "CH- *** S - " is displayed.

Each time the [AUDIO] knob is pressed, the Channel Skip switches ON or OFF.

For Channel Lock:

Press the [AUDIO] knob for at least 1 second.

When it's ON, "CH- *** S L " is displayed.



- Channel Skip is automatically set in the unit when you set the Channel Lock function.

5 Exit Channel Skip/ Lock mode

Press the [MENU] button.

Canceling the Channel Lock mode

1 Select Channel Skip/ Lock mode

Press the [AUDIO] button.

Select the "Skip/ Lock" display.



- This function can be used the [FM] / [AM] button.

2 Enter Channel Skip/ Lock mode

Press the [MENU] button.

"CH- *** - - " is displayed.

3 Select the channels

Turn the [◀◀] / [▶▶] knob.

4 Cancel for Lock mode

Press the [AUDIO] knob for at least 1 second.

"CODE ----" is displayed.

5 Select the digits to enter

Press the [AUDIO] knob.



- This function can be used the [FM] / [AM] button.

6 Select the Lock Code numbers

Turn the [◀◀] / [▶▶] knob.

7 Repeat steps 5 and 6, and complete the Lock Code.

8 Confirm the Lock Code

Press the [AUDIO] knob for at least 1 second.

"APPROVED" is displayed.

9 Exit Channel Skip/ Lock mode

Press the [MENU] button.

In SIRIUS source

SIRIUS Lock Code Setting

If you have locked any streams in the channel lock mode, you will need to enter 4 digit Lock Code to unlock them. You can change the Lock Code (default is "0000") as you like.

1 Select Lock Code mode

Press the [AUDIO] button.

Select the "Lock Code" display.



- This function can be used the [FM] / [AM] button.

2 Enter Lock Code mode

Press the [MENU] button.

"CURRENT" is displayed.

3 Enter current Lock Code (default is "0000")

Select the digits to enter

Press the [AUDIO] knob.



- This function can be used the [FM] / [AM] button.

4 Select the Lock Code numbers

Turn the [◀◀] / [▶▶] knob.

5 Repeat steps 3 and 4, and complete the Lock Code.

6 Confirm the Lock Code

Press the [AUDIO] knob for at least 1 second.

"NEW CODE" is displayed.



- When the wrong Code is entered in steps 3 through 5, repeat from step 1.

7 Enter New Lock Code

Repeat steps 3 through operations, enter New Lock Code.

"RE-ENTER" is displayed.

8 Reenter New Lock Code

Repeat steps 3 through operations, reenter New Lock Code.

"CODE CHANGED" is displayed.

The Lock Code function activates.



- When the wrong Code is entered in step 8, repeat from step 1.

9 Exit Channel Lock Code mode

Press the [MENU] button.

Text Scroll

Setting the displayed text scroll.

Display	Setting
"Scroll Auto"	Repeats scroll.
"Scroll MANU"	Scrolls when the display changes.



- The text scrolled is shown below.
 - CD text
 - Folder name/ File name/ Song title/ Artist name/ Album name
 - MD title
 - Text for the SIRIUS source, HD Radio source, including Channel name, etc.

Built-in Auxiliary input Setting

Set the Built-in Auxiliary Input function.

Display	Setting
"AUX OFF"	When selecting the source there's no Auxiliary Input.
"AUX ON"	When selecting the source there's Auxiliary Input.

In Standby mode

CD Read Setting

When there is a problem on playing a CD with special format, this setting play the CD by force.

Display	Setting
"CD READ 1"	Play CD and MP3/WMA.
"CD READ 2"	Play CD by force.



- Setting "CD READ 2" cannot play MP3/WMA. Some music CDs may not be played back even in the "CD READ 2" mode.

When LX AMP unit connecting

AMP Control

You can control the LX AMP connected to the unit.

1 Select AMP Control mode

Press the [AUDIO] knob.

Select the "AMP Control" display.



- This function can be used the [FM] / [AM] button.

2 Enter AMP Control mode

Press the [MENU] button.

3 Select the AMP Control item for adjustment

Press the [AUDIO] knob.



- For the details of the AMP Control item, see the Instruction manual attached to the LX AMP.
- This function can be used the [FM] / [AM] button.

4 Adjust the AMP Control item

Turn the [◀◀] / [▶▶] knob.

5 Exit AMP Control mode

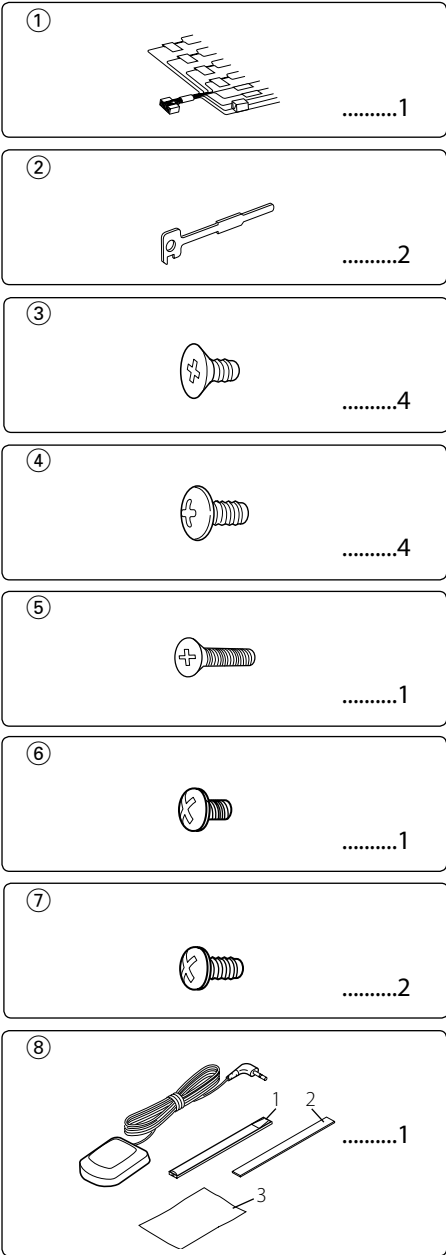
Press the [MENU] button.



- You cannot use the LX AMP operation during standby mode.

Accessories/ Installation Procedure

Accessories



Installation Procedure

1. To prevent a short circuit, remove the key from the ignition and disconnect the \ominus battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the speaker wires of the wiring harness.
4. Connect the wiring harness wires in the following order: ground, battery, ignition.
5. Connect the wiring harness connector to the unit.
6. Install the unit in your car.
7. Reconnect the \ominus battery.
8. Press the reset button.

▲WARNING

If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.

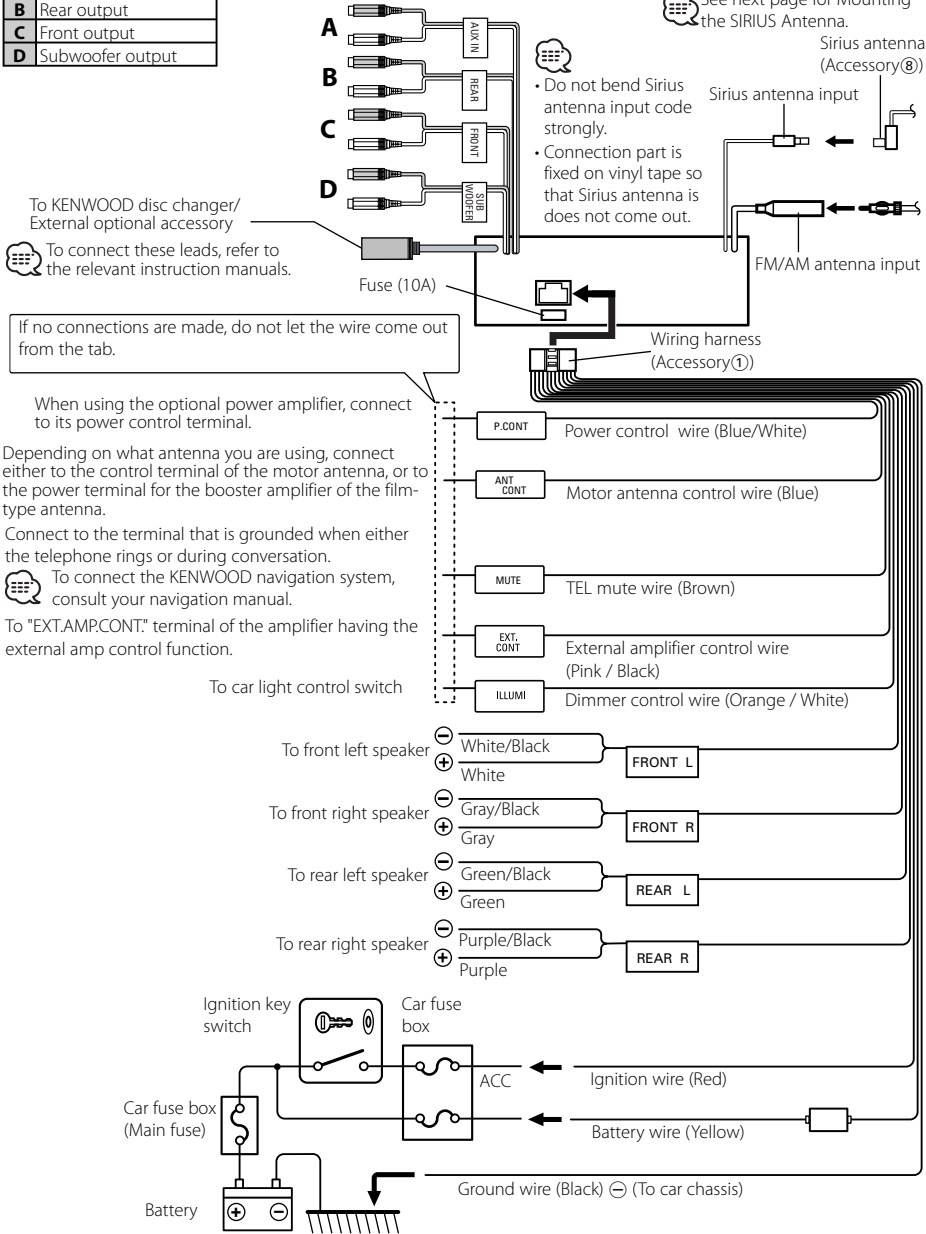


- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the \ominus wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the \oplus connector of the left speaker to a front output terminal, do not connect the \ominus connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.

Connecting Wires to Terminals

	Ez900HDS/Ez700SR
A	Aux input
B	Rear output
C	Front output
D	Subwoofer output

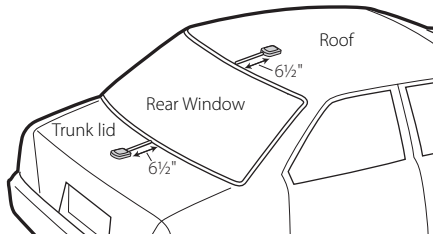
Left output (White), Right output (Red)



Mounting the SIRIUS Antenna

The SIRIUS antenna has powerful magnetic mounting to hold on place to metal surface. The antenna's tail protects the exposed portion of antenna cable from the elements. The tail has an adhesive strip that will firmly adhere it to the vehicle.

- 1 Find an antenna location on a metal surface at least 12"x12" (30.5cm x 30.5cm). Best reception is achieved with antenna mounted on the roof; mounting on the trunk lid will work for convertibles.



- For the best reception, the antenna should be mounted exactly 6.5" (16.5cm) away from the vehicle's rear window, so that only the portion of the cable that will be protected by the tail is exposed.
 - If the vehicle has a roof rack or skid ribs, it may be necessary to mount antenna off-center, away from obstructions that could interfere with reception.
- 2 Use the provided alcohol wipe (Accessory ⑧-3) to clean the general area where the antenna and tail are to be mounted on the vehicle.
 - 3 Place the antenna at the selected location. The magnet will adhere it to the vehicle.
 - 4 Dry-fit the antenna tail (Accessory ⑧-1) onto the antenna cable, ensuring that the tail fits snugly against the antenna housing, and that the entire cable properly fit into the recess on the underside of the tail.
 - 5 Remove the protective form one side of the adhesive (Accessory ⑧-2) and firmly adhere the tail to the bottom of the tail, attaching it to the antenna cable.
 - 6 Remove the protective form other side of the adhesive (Accessory ⑧-2), place the antenna housing in the location you have selected and firmly adhere the tail to the vehicle.
 - 7 Route the exposed portion of the antenna cable from the end of the tail to the vehicle's interior by tucking it underneath the rubber molding around the vehicle's rear window.



- It is important that the insulation on the SIRIUS antenna cable does not become cut or nicked during the installation process.
- Do not route or pull the SIRIUS antenna cable against sharp edges or around sharp corners.

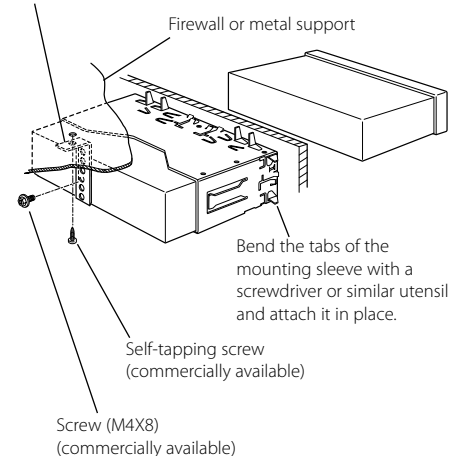
- 8 Route the cable from lowest point of the window in to the trunk. Running antenna cable under the interior trim that connecting the antenna input to the unit.



- SIRIUS antenna installation should be carried out at or above room temperature. Colder temperatures could affect the curing time antenna tails adhesive. At room temperature, maximum adhesion usually occurs within 72 hours. During this period, car washes and other contact with antenna and tail should be avoided. Warmer temperatures will also make it easier to route the antenna cable around any windows or other obstructions.

non-Japanese cars

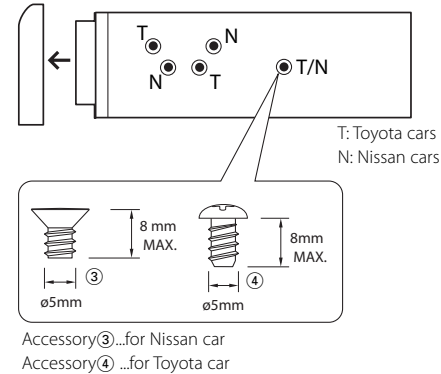
Metal mounting strap
(commercially available)



- Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (for example, the sound may skip).

Japanese cars

- 1 Refer to the section <Removing the hard rubber frame> (page 40) and then remove the hard rubber frame.
- 2 Align the holes in the unit (two locations on each side) with the vehicle mounting bracket and secure the unit with the accessory screws.

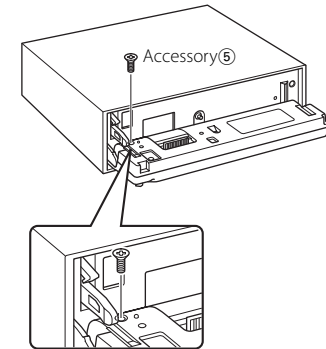


- During installation, do not use any screws except for those provided. The use of different screws might result in damage to the main unit.
- Damage may occur if a screwdriver or similar tool is used with excessive force during the installations.

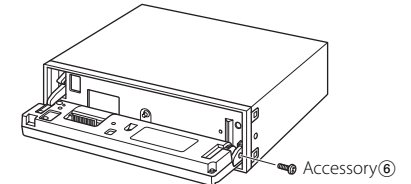
Screwing the Faceplate on the Unit

If you want to fasten the faceplate to the main unit so that it does not fall off.

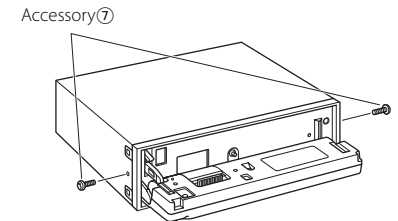
- 1 Refer to the section <Removing the hard rubber frame> (page 40) and then remove the hard rubber frame.
- 2 Drop open the faceplate by pressing the Release button.
- 3 Tighten the screws (ø2.6 x 12 mm) (Accessory ⑤) in the holes shown on the diagram.



- 4 Tighten the screws (ø2 x 4 mm) (Accessory ⑥) in the holes shown on the diagram.



- 5 Tighten the screws (ø2 x 6 mm) (Accessory ⑦) in the holes shown on the diagram.

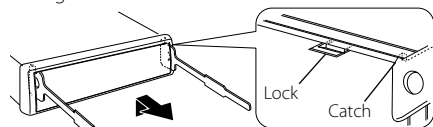


- Never insert the screws in any other screw hole than the one specified. If you screw them in another hole, it will contact and may cause damage to the mechanical parts inside the unit.

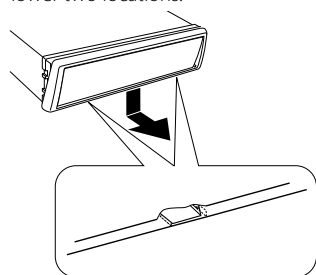
Removing the Unit

Removing the hard rubber frame

- 1 Engage the catch pins on the removal tool and remove the two locks on the upper level. Upper the frame and pull it forward as shown in the figure.



- 2 When the upper level is removed, remove the lower two locations.

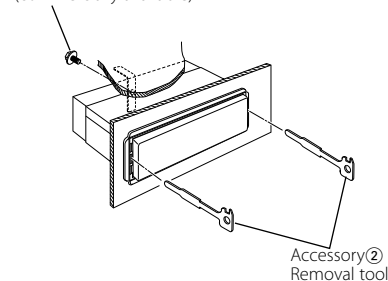


- The frame can be removed from the bottom side in the same manner.

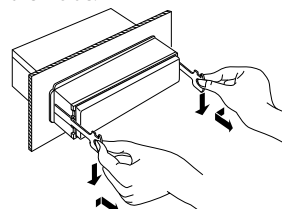
Removing the Unit

- 1 Refer to the section <Removing the hard rubber frame> (page 40) and then remove the hard rubber frame.
- 2 Remove the screw (M4 x 8) on the back panel.
- 3 Insert the two removal tools deeply into the slots on each side, as shown.

Screw (M4X8)
(commercially available)

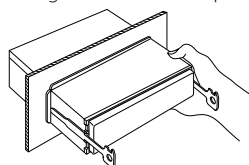


- 4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.



- Be careful to avoid injury from the catch pins on the removal tool.

- 5 Pull the unit all the way out with your hands, being careful not to drop it.



Troubleshooting Guide

What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

General

? Can't select the source.

- ✓ Can't be selecting the source without SIRIUS.
- ✎ Subscribe to SIRIUS. Refer to <Activating your SIRIUS subscription> (page6).

? The power does not turn ON.

- ✓ The fuse has blown.
- ✎ After checking for short circuits in the wires, replace the fuse with one with the same rating.
- ✓ The speaker wire has a short-circuit or touches the chassis of the vehicle, and then the protection function is activated.
- ✎ Wire or insulate the speaker cable properly and press the reset button.

? There's a source you can't switch.

- ✓ No subscription is established.
- ✎ Subscribe to SIRIUS. Refer to <Activating your SIRIUS subscription> (page6).
- ✓ There's no media inserted.
- ✎ Set the media you want to listen to. If there's no media in this unit, you can't switch to each source.
- ✓ The Disc changer isn't connected.
- ✎ Connect the Disc changer. If the Disc changer isn't connected to its input terminal, You can't switch to an external disc source.

? The memory is erased when the ignition is turned OFF.

- ✓ The ignition and battery wire are incorrectly connected.
- ✎ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.

? There's no loudness effect.

- ✓ You're using Subwoofer preout.
- ✎ Loudness has no effect in Subwoofer preout.

? Even if Loudness is turned ON, high-pitched tone isn't compensated for.

- ✓ Tuner source is selected.
- ✎ High-pitched tone isn't compensated for when in Tuner source.

? The TEL mute function does not work.

- ✓ The TEL mute wire is not connected properly.
- ✎ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.

? The TEL mute function turns ON even though the mute wire is not connected.

- ✓ The TEL mute wire is touching a metal part of the car.
- ✎ Pull the TEL mute wire away from the metal part of the car.

? No sound can be heard, or the volume is low.

- ✓ The fader or balance settings are set all the way to one side.
- ✎ Center the fader and balance settings.
- ✓ The input/output wires or wiring harness are connected incorrectly.
- ✎ Reconnect the input/output wires or the wiring harness correctly. See the section on <Connecting Wires to Terminals>.
- ✓ The values of Volume offset are low.
- ✎ Turn up the Volume offset, referring to the section on <Audio Setup> (page 11).
- ✓ The <Built-in Amp Mute Setting> (page 29) is ON.
- ✎ Turn it OFF.

? The sound quality is poor or distorted.

- ✓ One of the speaker wires is being pinched by a screw in the car.
- ✎ Check the speaker wiring.
- ✓ The speakers are not wired correctly.
- ✎ Reconnect the speaker wires so that each output terminal is connected to a different speaker.

? The Touch Sensor Tone doesn't sound.

- ✓ The preout jack is being used.
- ✎ The Touch Sensor Tone can't be output from the preout jack.

? The Dimmer function doesn't work.

- ✓ The Dimmer wire isn't connected correctly.
- ✎ Check the Dimmer wire connection.
- ✓ The <Dimmer> (page 29) is OFF.
- ✎ Turn it ON.

Tuner source

? Radio reception is poor.

- ✓ The car antenna is not extended.
- ✎ Pull the antenna out all the way.
- ✓ The antenna control wire is not connected.
- ✎ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.

? The desired frequency can't be entered with the Direct Access Tuning.

- ✓ A station that can't be received is being entered.
- ✎ Enter a station that can be received.
- ✓ You're trying to enter a frequency with a 0.01 MHz unit.
- ✎ What can be designated in the FM band is to 0.1 MHz.

Disc source

? "AUX EXT" is displayed without achieving External disc control mode.

- ✓ Unsupported disc changer is connected.
 - ✎ Use the disc changer mentioned in the <About CD players/disc changers connected to this unit> (page 4) of the section on <Safety precautions>.

? The specified disc does not play, but another one plays instead.

- ✓ The specified CD is quite dirty.
 - ✎ Clean the CD.
- ✓ The disc is loaded in a different slot from that specified.
 - ✎ Eject the disc magazine and check the number for the specified disc.
- ✓ The disc is severely scratched.
 - ✎ Try another disc instead.

? Can't remove disc.

- ✓ The cause is that more than 10 minutes has elapsed since the vehicle ACC switch was turned OFF.
 - ✎ The disc can only be removed within 10 minutes of the ACC switch being turned OFF. If more than 10 minutes has elapsed, turn the ACC switch ON again and press the Eject button.

? The disc won't insert.

- ✓ There's already another disc inserted.
 - ✎ Press the [▲] button and remove the disc.

? Direct Search can't be done.

- ✓ Another function is ON.
 - ✎ Turn Random Play or other functions OFF.

? Track Search can't be done.

- ✓ For the discs/folders first or last song.
 - ✎ For each disc/folder, Track Search can't be done in the backward direction for the first song or in the forward direction for the last song.

MP3/WMA source

? Cannot play an MP3/WMA.

- ✓ The media is scratched or dirty.
 - ✎ Clean the media, referring to the CD cleaning of the section on <About CDs> (page 7).

? The sound skips when an MP3/WMA is being played.

- ✓ The media is scratched or dirty.
 - ✎ Clean the media, referring to the CD cleaning of the section on <About CDs> (page 7).
- ✓ The recording condition is bad.
 - ✎ Record the media again or use another media.

? The MP3/WMA track time isn't displayed correctly.

- ✓ ---
 - ✎ There are times when it isn't displayed correctly according to the MP3/WMA recording conditions.

HD Radio source

? No sound can be heard, or the volume is low.

- ✓ The preset broadcast station is not transmitting in the mode that was set with <Receive mode Setting> (page 30).
 - ✎ Please set <Receive mode Setting> to "Auto".
- ✓ In digital AM broadcasting, receive mode switches between stereo and monaural too often.
 - ✎ Receiving condition is bad or unstable. Stereo is chosen when receiving condition is good, and it switches to monaural when the condition becomes bad.
- ✓ In digital broadcasting, receive mode switches between "DIGITAL" and "ANALOG" too often.
 - ✎ Receiving condition is bad or unstable. <Receive mode Setting> (page 30) is chosen the "Analog" when receiving condition is bad.
- ✓ HD Radio tuner is connected to KCA-S210A or other units (Ez700SR).
 - ✎ Connect the HD Radio tuner directly to the control unit.

? Radio reception is poor

- ✓ The car antenna is not extended.
 - ✎ Pull the antenna out all the way.
- ✓ The antenna control wire is not connected.
 - ✎ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.

SIRIUS source

If you use this for the first time, it may be difficult to receive signals in the beginning. In such a case, leave the SIRIUS source ON for 3 minutes and turn it OFF and ON.

? No broadcast can be received.

- ✓ The Sirius antenna is not connected.
 - ✎ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.
- ✓ No subscription is established.
 - ✎ Subscribe to SIRIUS. Refer to <Activating your SIRIUS subscription> (page6).

The messages shown below display your systems condition.

EJECT:	No disc magazine has been loaded in the changer. The disc magazine is not completely loaded. ✎ Load the disc magazine properly. No CD in the unit. ✎ Insert the CD.
No Disc:	No disc has been loaded in the disc magazine. ✎ Load a disc into the disc magazine.
TOC Error:	No disc has been loaded in the disc magazine. ✎ Load a disc into the disc magazine. The CD is quite dirty. The CD is upside-down. The CD is scratched a lot. ✎ Clean the CD and load it correctly.
E-05:	The CD is upside-down. ✎ Load the CD correctly.
Blank Disc:	Nothing has been recorded on the MD.
No Track:	No tracks are recorded on the MD, although it has a title.
No Panel:	The faceplate of the slave unit being connected to this unit has been removed. ✎ Replace it.
E-77:	The unit is malfunctioning for some reason. ✎ Press the reset button on the unit. If the "E-77" code does not disappear, consult your nearest service center.
Mecha Error:	Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason. ✎ Check the disc magazine. And then press the reset button on the unit. If the "Mecha Error" code does not disappear, consult your nearest service center.
Hold Error:	The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F), stopping all operation. ✎ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F), the disc will start playing again.
NO NAME:	Attempted to display DNPS during the CD play having no disc names preset.
Load:	Discs are being exchanged in the Disc changer.
Reading:	The unit is reading the data on the disc.
NO ACCESS:	After setting it in the Disc Changer, DNPP was done without having it been played at least 1 time.
Waiting :	HD Radio text data is being received.
"IN" indicator is blink (page 23):	The CD player section is not operating properly. ✎ Reinsert the CD. If the CD cannot be ejected or the display continues to flash even when the CD has been properly reinserted, please switch off the power and consult your nearest service center.
Unsupported :	A MP3/WMA is played with a format that this unit can't support. ✎ ----
Protected :	A copy-protected file is played. ✎ ----
ANT ERROR :	SIRIUS Antenna is not connected. ✎ Make sure the antenna is connected correctly and then turn ON/OFF of the unit.
TUNER ERROR :	Broadcast (SIRIUS) cannot be received due to an error in this unit. ✎ Turn ON/OFF of the unit or press the reset button of the unit. ✎ Make sure the antenna is connected correctly and then turn ON/OFF of the unit.
ESN ERROR :	ESN (SIRIUS) is not registered in tis unit. ✎ Turn ON/OFF of the unit or press the reset button of the unit.
LOCKED CHANNEL :	Choose the Lock Channels Broadcast (SIRIUS) ✎ Input the Lock Code or Choose the without Lock Channels.
INVALID CHANNEL :	The invalid channel was chosen (SIRIUS). ✎ Choose another Channels.
Updating Channels :	Channel information was updated (SIRIUS). ✎ Leave the SIRIUS source ON for 3 minutes.
Subscription Updated :	The subscription information (subscription, cancellation) was updated (SIRIUS). ✎ Leave the SIRIUS source ON for 3 minutes.

Specifications

Specifications subject to change without notice.

Analog FM tuner section

Frequency range (200 kHz space)
: 87.9 MHz – 107.9 MHz
Usable sensitivity (S/N = 30dB)
: 9.3dBf (0.8 μ V/75 Ω)
Quieting Sensitivity (S/N = 50dB)
: 15.2dBf (1.6 μ V/75 Ω)
Frequency response (\pm 3 dB)
: 30 Hz – 15 kHz
Signal to Noise ratio (MONO): 70 dB
Selectivity (\pm 400 kHz): 80 dB
Stereo separation (1 kHz): 40 dB

Digital FM tuner section (Ez900HDS)

Frequency range (200 kHz space)
: 87.9 MHz – 107.9 MHz
Frequency response (\pm 3 dB)
: 30 Hz – 15 kHz
Signal to Noise ratio (STEREO): 85 dB

Analog AM tuner section

Frequency range (10 kHz space)
: 530 kHz – 1700 kHz
Usable sensitivity (S/N = 20dB): 28 dB μ (25 μ V)

Digital AM tuner section (Ez900HDS)

Frequency range (10 kHz space)
: 530 kHz – 1700 kHz
Frequency response (\pm 3 dB)
: 30 Hz – 15 kHz
Signal to Noise ratio (STEREO): 70 dB

Sirius tuner section

Frequency range (Overall): 2320MHz–2332.5MHz
Frequency range (TDM Channel#1(fc))
: 2322.293MHz
Frequency range (COFDM Channel#1(fc))
: 2326.25MHz
Frequency range (TDM Channel#2(fc))
: 2330.207MHz
Usable sensitivity (TDM Channel)
: -91dB μ – -55dB μ
Usable sensitivity (COFDM Channel)
: -88dB μ – +4dB μ
Audio Sampling: 48KHz

CD player section

Laser diode
: GaAlAs
Digital filter (D/A)
: 8 Times Over Sampling

D/A Converter
: 1 Bit
Spindle speed
: 500 – 200 rpm (CLV)
Wow & Flutter
: Below Measurable Limit
Frequency response (\pm 1 dB)
: 10 Hz – 20 kHz
Total harmonic distortion (1 kHz)
: 0.01 %
Signal to Noise ratio (1 kHz)
: 105 dB
Dynamic range
: 93 dB
Channel separation
: 96 dB
MP3 decode
: Compliant with MPEG-1/2 Audio Layer-3
WMA decode
: Compliant with Windows Media Audio

Audio section

Maximum output power
: 50 W x 4
Full Bandwidth Power (at less than 1% THD)
: 22 W x 4
Tone action
Bass : 100 Hz \pm 10 dB
Middle : 1 kHz \pm 10 dB
Treble : 10 kHz \pm 10 dB
Preout level / Load (during disc play)
: 2000 mV/10 k Ω
Preout impedance
: \leq 600 Ω

Auxiliary input

Frequency response (\pm 1 dB)
: 20 Hz – 20 kHz
Input Maximum Voltage
: 1200 mV
Input Impedance
: 100 k Ω

General

Operating voltage (11 – 16V allowable)
: 14.4 V
Current consumption
: 10 A
Installation Size (W x H x D)
: 178 x 50 x 165 mm
7 x 1-15/16 x 6-1/2 inch
Weight
: 3.1 lbs (1.4 kg)